Welcome!

West Cambridge Water System Upgrades
Class Environmental Assessment
Public Consultation Centre

November 30th, 2017 – 5:00 p.m. to 7:00 p.m.
Cambridge City Hall – 50 Dickson Street
Improving Your Water System

The Region is looking at ways to improve how parts of your water system work together both now and in the future. This will ensure good water pressure and enough water for your needs.

Now Is A Great Opportunity
Looking at improving the water system gives us an opportunity to make sure we’re ready for future growth by updating aging infrastructure and ensuring we do the right things at the right time.

Improvements Mean Changes
These improvements will require adding and replacing parts of the water system which might mean changes in your neighbourhood. One example might be the need for a new water tower. All potential impacts will be studied.

The Region never stops planning to ensure the water system is capable of handling the community’s needs.

Water Master Plan (2013)
- Plans focused on the Region’s entire water system
- Highlighted opportunities to upgrade Cambridge’s system

Cambridge Implementation Plan (2015)
- Detailed study of the opportunities highlighted in the Master Plans
- Creation of a plan to do the work

West Cambridge Upgrades EA (2017)
- Focus on upgrade strategy for west Cambridge water system

Region of Waterloo, Water Services
www.regionofwaterloo.ca/water
Environmental Assessment Process Overview

We are just getting started! There will be a lot of opportunities for you to provide feedback.

A Class Environmental Assessment is a decision making process that all municipalities in Ontario follow for building new infrastructure.
Your Water System Has Many Parts That Work Together

The Region and local municipalities work together to supply clean and safe drinking water to its residents.

**Supply**
- Water is mostly supplied by groundwater wells, which draws water from underground aquifers.

**Treatment**
- Water is treated before supplying it to Cambridge and other local municipalities.

**Pumping Stations**
- Pumping stations help to regulate the water system pressures and flows.

**Storage**
- Storage tanks are used to help maintain pressure and provide water during peak usage times and emergencies.

**Watermains**
- The Region and City have a network of underground watermains that deliver water to residences, businesses, and fire hydrants.

**Your Water**
- The Region and City provide clean and safe drinking water.

While the Region owns and operates the water treatment plants, groundwater wells, reservoirs, and pumping stations, local municipalities are responsible for delivering water to their residents.
**West Cambridge Water System**

**Key Parts**

**BLAIR ROAD WELLS**
Wells G4 / G4A are the only supply wells located within the study area.

**ST ANDREWS PUMPING STATION AND TANK**
The St Andrews Pumping Station supplies water needed for the study area by increasing the pressure from the neighbouring area of the water system.

**INVERNESS WATER TOWER**
The Inverness Elevated Tank provides storage for the study area and helps to maintain pressure.

**WATERMAINS**
Watermains are located underground throughout the study area to transfer water to your homes and businesses.
Water Towers Are Important For Our Water System

Water stored within a water tower has three important purposes

• Water towers use gravity to provide water to your community as you need it.

• Water levels in tanks go up and down during the day. This allows the water system to:
  o Maintain constant pressure in your home
  o Respond quickly to fires and emergency situations
  o Maintain good water quality
What Do You Think Are The Most Important Aspect Of Your Water System?

Get Engaged! Please put a sticker in the box that you think is the most important aspect of your water system. Your feedback will be used to help develop and evaluate options for recommended upgrades.

- Cost
- Reliability
- Quality
- Pressure
- Other
The project objective is to establish a preferred servicing plan for the west Cambridge water system that:

- Meets current and future needs
- Maintains or improves service level
- Supports optimization of the overall Cambridge water system
- Increases overall efficiency, reliability, and flexibility of the west Cambridge water system
Being Ready for the Community’s Future Water Needs

Blair Rd Wells (Well G4/G4A)

• Supply west Cambridge with clean and safe drinkable water.

Opportunities/Challenges

• Confirming how much water can be supplied in the future by the wells.
• Ensuring the water supplied is sustainable and considers potential water quality changes.
• Q: How can the existing Blair Rd. Wells be managed sustainably if the water supply is increased?
Updating and Enhancing the Existing Pumping Station

St. Andrews Pumping Station

• Supplies water to the west Cambridge study area.

Opportunities/Challenges

• Ensuring the pumps are the right size for the future.
• Optimize water storage at the St Andrews Pumping Station site (existing tanks vs. new tank).
• Q: What improvements are needed so the station can meet future needs?
New Watermains Make Strong Connections

Watermains

• Help deliver water to the west Cambridge study area from the Blair Road Wells, St. Andrews Pumping Station, and water towers.

Opportunities/Challenges

• Identify where new watermains would help the system and what size they should be.
• Q: Where will new watermains go?
Is a New Water Tower Needed?

**Water Towers**

• Provides enough water storage for everyday use and for emergencies (such as fires).

**Opportunities/Challenges**

• The existing Inverness water tower does not have enough water storage for future needs.

• Q: Is a new tower needed? Where will a new water tower go? Do we still need the Inverness Water Tower?
If a new water tower is needed, its location will be important in determining how all the other components of the west Cambridge water system fit together.

Important considerations for a new water tower location include:

- Size of property
- Ground elevation
- Closeness to the west Cambridge water system
- Avoiding environmental features
- Existing property land use
- Avoiding areas of cultural heritage
- Shadows cast by water tower
What is Most Important To You When We Consider Locating a New Water Tower?

**Get Engaged!** Please put a sticker in the box that you think is the most important factor to consider for recommending the location for a new water tower. Your feedback will be used to help develop a short list and evaluate options for a recommended water tower location.

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Water Tower Screening Process

Technical
- Appropriate land size
- Highest ground elevation
- Close to existing watermains

Environmental
- Avoid significant environmental features

Land Use
- Current land use of site
- Avoid known cultural heritage resources
- Minimize shadows
Potential Locations for a New Water Tower
Get Engaged! Now we want your input on these potential water tower sites. Please place a sticker in the box for the location you like best. Your feedback will be used to help develop a short list and evaluate options for a recommended water tower site.

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Did we miss anything?
Thank You for Your Participation!

Get Engaged! We are still at the beginning of the west Cambridge water system environmental assessment. Do you have any questions, comments, or want to stay up to date? Please contact:

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Please note that information related to this study will be collected in accordance with the Freedom of Information and Protection of Privacy Act. All comments received will become part of the public record and may be included in the study documentation prepared for public review.